



OVERVIEW

PPS's T4500 Signal Conditioning Electronics is a high-performance drive electronics that reliably detects the tiniest changes in TactArray sensors capacitance. These changes can be as low as 1 femtofarad. By providing such excellent sensitivity and reliability, the T4500 electronics enables the outstanding pressure sensing resolution that drives PPS's TactArray instrumentation solutions.

Designed to attach to a computer via high-speed USB 2.0 interface, T4500 Signal Conditioning Electronics offers programmable re-configurability to handle many different sensor sizes and supports up to 1,024 sensing elements per electronics with sampling speed up to 10 kHz element-to-element.

KEY FEATURES AND BENEFITS

- Small and portable
• USB 2.0 power connection that eliminates need for separate electrical power source
• Drives all PPS TactArray Sensors via Chameleon software
• Up to 1,024 sensing elements capacity
• Hardware synchronization for parallel scanning of larger arrays
• Integrated real-time thermal compensation for allowing testing to be done accurately under changing temperature conditions.
• 2X the speed of the previous versions.

ELECTRONICS SPECIFICATIONS

Table with 2 columns: Specification Name and Value. Rows include Sample Rate (7-10Khz element to element), Computer Interface (USB 2.0), ADC Resolution (12 bit), Input Voltage (5V), Input Power (2W), Enclosure Size (6.5x6.2x1 in. (16.5x15.8x2.5 cm)), and Weight (1.43 lbs. (650 g)).



T4500 Signal Conditioning Electronics